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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/674,477	10/01/2003	Young-sig Kwon	1293.1948	4673
21171 75	90 08/22/2006		EXAM	INER
STAAS & HALSEY LLP SUITE 700			NGUYEN, T	HAN VINH
1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON	N, DC 20005		21,87	
			DATE MAILED: 08/22/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/674,477	KWON, YOUNG-SIG
Office Action Summary	Examiner	Art Unit
	Than Nguyen	2187
The MAILING DATE of this communication a	ppears on the cover sheet with	the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAL. 136(a). In no event, however, may a reput will apply and will expire SIX (6) MONTE ute, cause the application to become ABA	ATION. lly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 1/2	A/05 3/20/05	
· <u> </u>	is action is non-final.	
3) Since this application is in condition for allow		rs, prosecution as to the merits is
closed in accordance with the practice under	•	•
Disposition of Claims	• • •	
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application	on.	
4a) Of the above claim(s) is/are withdr		
5) Claim(s) is/are allowed.		
6) Claim(s) 1-3,8-10,17,20 and 21 is/are rejected	ed.	
7) Claim(s) <u>4-7,11-16,18 and 19</u> is/are objected	I to.	
8) Claim(s) are subject to restriction and	or election requirement.	
Application Papers		
9) The specification is objected to by the Examir	ner.	
10)⊠ The drawing(s) filed on <u>01 October 2003</u> is/ar		jected to by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the I	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).
1. ☐ Certified copies of the priority docume	nts have been received.	
2. Certified copies of the priority docume		plication No
3. Copies of the certified copies of the pri	iority documents have been r	eceived in this National Stage
application from the International Bure	au (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list	st of the certified copies not re	eceived.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Su	mmary (PTO-413)
2) Description Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date ormal Patent Application (PTO-152)
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 1/24/05,3/29/05. 	6) Other:	

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DETAILED ACTION

Priority

- 1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 2. Claims 1-21 are pending.
- 3. The IDSes, filed 1/24/05 and 3/29/05, have been considered.

Claim Rejections - 35 USC § 112

4. Claim 21 recites the limitation "the optical medium" in line 7. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-3,8-10,17,20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto (US 5,325,352).

As to claim 1,8:

7. Matsumoto teaches a method of recording record signals sequentially transmitted from a host on an optical recording medium, comprising:

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receiving record data from the host and storing the data in a buffer if an environment data is set (store data in subcode memory; 6/27-45);

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building information on the optical recording medium in a lead-in region (generated TOC; 1/40-47; 5/40-49);

signal-processing the record data in the buffer and recording the data on the lead-in region, a program region, and a lead-out region of the optical recording medium (record data on disk; 3/40-4/6;5/23-6/49).

As to claim 2,9:

8. Matsumoto teaches notifying the host that the recording has been completed (complete recording status; 5/44; 9/23-30).

9.

As to claim 3,10:

10. Matsumoto teaches the information on the optical recording medium is built using subq value and subcodes (2/18-40,55-67;5/50-65) but doses not specifically teach using a 16 byte-subq value and a 96 byte-subcode. It would be clear to one of ordinary skills that the size of the subq and subcode varies upon different application requirements. Thus it would have been obvious to one ordinary skills in the art to use a 16 byte subq and a 96 byte subcode, or other sized subcodes, as necessary to fulfill the application requirement.

As to claim 17:

11. Matsumoto teaches a recording apparatus comprising:

a buffer section (subcode memory 44; 6/27-45);

a recording section (disc servo, motor; Fig 1);

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a table of contents building section using a subq value and a subcode value (generate TOC; 5/40-49, 7/54-5/15); and

a control section which manages the buffer section's capacity (6/28-45;7/15-22;8/60-65).

As to claim 20:

12. Matsumoto teaches a data recording method comprising:

processing a record command (5/66-67);

forming an appropriate recording power and recording speed (controlling power and velocity; 5/9-32);

initializing an encoder; (data forming circuit 32; 5/33-40)

receiving data from a host and managing a buffer (storing data into subcode memory 44;

5/55-57, 6/27-45);

setting an encoder mode and starting sector processing (process data; 6/50-68);

building information using a subq value and a subcode value (generate subcode; 5/50-

6/4);

setting recording parameters and moving an optical pickup (controlling motors; 5/15-40);

recording the data from a lead-in region to a lead-out region (record data; 3/40-4/6, 5/23-

6/49); and

notifying the host of completion (completion status; 5/44,9/20-23).

As to claim 21:

13. Matsumoto teaches a data recording medium comprising:

processing a record command (5/66-67);

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forming an appropriate power and setting a recording speed (controlling power and velocity; 5/9-32);

initializing an encoder (initiate data forming circuit 32; 5/33-40); setting a buffer to a raw recording mode (set reproduction mode; 8/48-65); building table of contents information (building TOC; 5/40-49, 7/54-8/15); and recording the received data on the optical medium (record data; 3/40-4/6, 5/23-6/49).

Allowable Subject Matter

- 14. Claims 4-7,11-16,18,19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 15. As to claim 4,11,18, the prior art does not further teach the building comprises: identifying the number of blocks if 16 byte-subq value exist; interpret a subq value for each block; and building the information on the optical recording medium using an index value in the subq value of the block (generating subq and subcodes; 2/18-40; 7/54-8/20).
- 16. Claims 5,6,13,14 are also allowable for incorporating the limitations of claim 4/11/18.
- 17. As to claim 7,12,19, the prior art does not further teach the building comprises: identifying the number of blocks if the 96 byte subcode value exists; deducing a subq value for each block; interpreting a subcode value of each block; and building the information on the optical recording medium using an index value in the interpreted subcode value of each block.
- 18. Claims 15,16 are also allowable for incorporating the limitations of claim 12.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Than Nguyen whose telephone number is 571-272-4198. The examiner can normally be reached on 8am-3pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Than Nguyen
Primary Examiner
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